

Dynamic Design:
A Collection Process

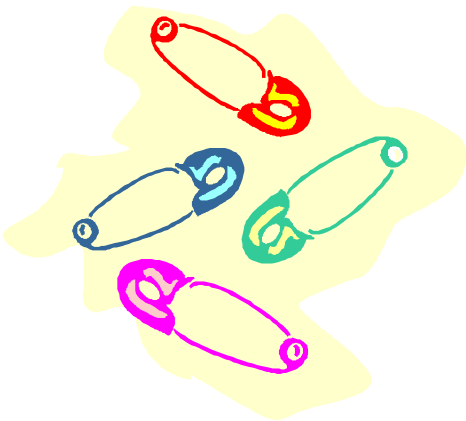
Modeling Solar Wind Collection:
Invisible Analysis

STUDENT ACTIVITY–PART 3

In this activity, you will learn that the model in "Better Beads" was deficient in the fact that the analysis was visible. The analysis of the solar wind particles on the wafers requires more than meets the eye. The analysis is completed by analytical instruments, not human observation.

PROCEDURE

1. Gather materials as specified by your teacher. Your goal will be to pick out the safety pins from the bowl of rice while blindfolded.
2. Each person should predict the number of safety pins they will pick out in one minute.
3. Ask one group member to put the blindfold on and another member to keep time. The blindfolded student will have one minute to pick out as many safety pins as possible. Make a data table that includes each person, predictions, actual number of pins picked out, and difference between actual and predicted pick-ups. Record results in a data table.
4. Repeat this process two more times.
5. Switch roles and repeat the process.



RESULTS

Trial	Prediction	Results
1		
2		
3		

QUESTIONS

1. Identify the parts of this model. What did the rice represent? What did the safety pins represent?
2. Why were you blindfolded?
3. How does this model solar wind collection?